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Amendm nts to th Claims

This listing of the claims will serve to replace all prior versions, and listings, of claims in the application:

Listing of Claims:

--1. (Original) A laser produced by the process of:

providing a structure comprising a substrate with an epi structure thereon comprising a gain region with multiple quantum wells, a mirror stack coupled to the gain region, and a conductive layer coupled to the mirror stack;

dividing the conductive layer into a conductive, central area and one or more dielectric, peripheral areas;

attaching a conductive plate to the conductive layer;

thinning the substrate to improve the passage of light therethrough to produce a substrate remnant; and

attaching an electrode to the substrate remnant;

whereby the conductive plate can act as a mechanical support for the structure, as an electrode, and as a means for dissipating heat.

- 2. (Original) The laser of claim 1 wherein the step of attaching an electrode to the substrate remnant comprises attaching an annular electrode.
 - 3. (Original) The laser of claim 1 wherein the mirror stack comprises a distributed

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Bragg reflector.

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4. (Original) The laser of claim 1 wherein the gain region with multiple quantum wells

is formed with GaAs interleaved with AlGaAs barrier layers whereby the quantum wells are

suitable for light with a wavelength of approximately 850 nm.

5. (Original) The laser of claim 1 wherein the gain region with multiple quantum wells

is formed with AlGaAs alloy layers of varying percentages of Al whereby the quantum wells

are suitable for light with a wavelength of approximately 780 nm.

6. (Original) The laser of claim 1 wherein the gain region with multiple quantum wells

is formed with GalnP alloy with AlGalnP barrier layers whereby the quantum wells are

suitable for light with a wavelength of approximately 670 nm.

7. (Original) The laser of claim 1 wherein the conductive layer coupled to the mirror

stack is made with AIAs.

8. (Original) The laser of claim 1 wherein the step of dividing the conductive layer

into the conductive, central area and one or more dielectric, peripheral areas is carried out

by selective oxidation.

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9. (Original) The laser of claim 1 wherein the conductive plate is attached to the

conductive layer by conductive adhesive.

10. (Original) The laser of claim 9 wherein the conductive adhesive is solder and

wherein the step of coupling the conductive plate to the conductive layer is carried out by

heating the conductive adhesive, conductive plate, and conductive layer and maintaining

the conductive adhesive, conductive plate, and conductive layer at an elevated

temperature for a time sufficient to bond the conductive adhesive, conductive plate, and

conductive layer together.

11. (Original) The laser of claim 1 wherein the conductive plate is approximately 1

mm in thickness.

12. (Original) The laser of claim 11 wherein the conductive plate is formed from

metal.

13. (Original) The laser of claim 1 wherein the step of thinning the substrate to

improve the passage of light therethrough to produce a substrate remnant is carried out by

a Chemical and Mechanical Planarization (CMP) process.

14. (Original) The laser of claim 13 wherein the step of thinning the substrate

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comprises thinning the substrate to a thickness wherein it is substantially transparent to light emitted by the laser.

15/39. (Canceled)